

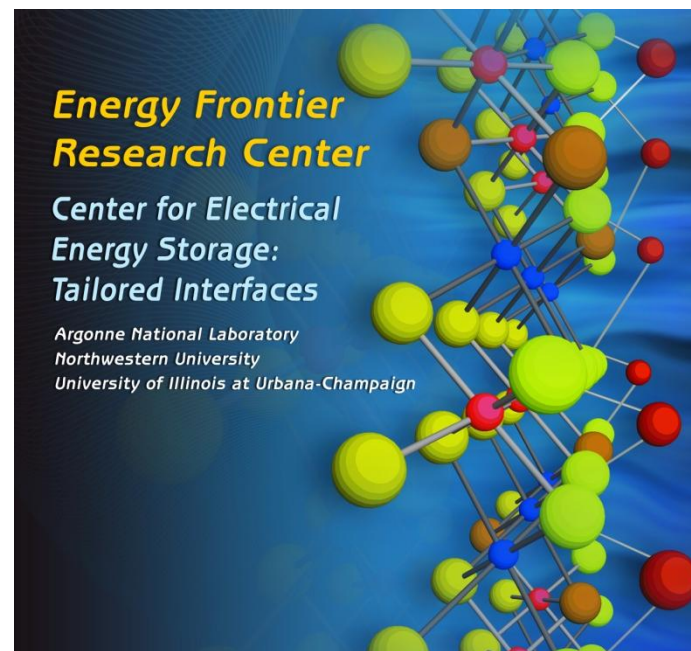


U.S. DEPARTMENT OF
ENERGY

Center for Electrical Energy Storage

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The Center's overarching mission is to acquire a fundamental understanding of interfacial phenomena controlling electrochemical processes that will enable dramatic improvements in the properties and performance of electrical energy storage devices such as batteries and supercapacitors.



RESEARCH PLAN AND DIRECTIONS

Control of ionic and electronic transport and the stability of an electrified interface is central to the high energy and power output, lifetime, and safety of batteries and supercapacitors. Radical improvements will be sought through the synthesis and design of novel, stabilized architectures at the electrode-electrolyte interface and the characterization of electrochemical processes at the interface.